

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C. 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing: 04 May 2000 (04.05.00)	
International application No.: PCT/EP99/07772	Applicant's or agent's file reference: 402530WO
International filing date: 07 October 1999 (07.10.99)	Priority date: 23 October 1998 (23.10.98)
Applicant: PIETERSE, Rob	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International preliminary Examining Authority on:
20 January 2000 (20.01.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No.: (41-22) 740.14.35</p>	<p>Authorized officer:</p> <p>J. Zahra</p> <p>Telephone No.: (41-22) 338.83.38</p>
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PATENT COOPERATION TREATY

EO/US
PCT/EP99/07722

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing: <div style="text-align: center;">23 March 2000 (23.03.00)</div>	
International application No.: <div style="text-align: center;">PCT/EP99/07722</div>	Applicant's or agent's file reference: <div style="text-align: center;">N.74627A SMW</div>
International filing date: <div style="text-align: center;">15 September 1999 (15.09.99)</div>	Priority date: <div style="text-align: center;">15 September 1998 (15.09.98)</div>
Applicant: <div style="text-align: center;">DE HAAN, Andre et al</div>	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International preliminary Examining Authority on:

01 December 1999 (01.12.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No.: (41-22) 740.14.35</p>	Authorized officer: <div style="text-align: center;">J. Zahra</div> Telephone No.: (41-22) 338.83.38
---	---

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 402530W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 99/ 07772	International filing date (day/month/year) 07/10/1999	(Earliest) Priority Date (day/month/year) 23/10/1998
Applicant KONINKLIJKE KPN N.V. et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

National Application No
PCT/EP 99/07772

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04H1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 93 09631 A (FINISAR CORP) 13 May 1993 (1993-05-13) page 1, line 1 -page 5, line 7; claim 1; figure 1 ---	1
A	DE 42 44 198 A (NSM AG) 30 June 1994 (1994-06-30) column 1, line 1 -column 3, line 47; claim 1; figure 1 ---	1
A	DE 44 40 419 A (ISSING TILMAN ;ISSING MATTHIAS (DE); ISSING LUDWIG DR (DE)) 9 May 1996 (1996-05-09) column 1, line 1 -column 8, line 34; claim 1; figure 1 --- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
"&" document member of the same patent family

Date of the actual completion of the international search

22 December 1999

Date of mailing of the international search report

12/01/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

De Haan, A. J.

INTERNATIONAL SEARCH REPORT

national Application No

PCT/EP 99/07772

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 193 420 A (PETYARD LIMITED) 3 February 1988 (1988-02-03) the whole document ---	1
A	US 4 789 863 A (BUSH THOMAS A) 6 December 1988 (1988-12-06) column 1, line 1 - line 64; claim 1; figure 5 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 99/07772

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9309631 A	13-05-1993	US 5404505 A AU 654885 B AU 2909092 A CA 2121592 A EP 0610367 A	04-04-1995 24-11-1994 07-06-1993 13-05-1993 17-08-1994
DE 4244198 A	30-06-1994	AT 152561 T WO 9415416 A DE 59306351 D EP 0676104 A US 5691964 A	15-05-1997 07-07-1994 05-06-1997 11-10-1995 25-11-1997
DE 4440419 A	09-05-1996	NONE	
GB 2193420 A	03-02-1988	NONE	
US 4789863 A	06-12-1988	WO 9001243 A AU 615673 B AU 2325188 A DE 3851538 D DE 3851538 T DK 73290 A EP 0383775 A FI 94707 B JP 2769709 B JP 3500476 T NO 177950 B CA 1249032 A	08-02-1990 10-10-1991 19-02-1990 20-10-1994 12-01-1995 21-03-1990 29-08-1990 30-06-1995 25-06-1998 31-01-1991 11-09-1995 17-01-1989

KPN GIE

nr :

D. 23 MAR 2000

PCT

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KRUK, Wiggert Johan
KONINKLIJKE KPN N.V.
P.O. Box 95321
NL-2509 CH Den Haag
PAYS-BAS

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year) 20.03.2000

Applicant's or agent's file reference
402530WO

IMPORTANT NOTIFICATION

International application No.
PCT/EP99/07772

International filing date (day/month/year)
07/10/1999

Priority date (day/month/year)
23/10/1998

Applicant
KONINKLIJKE KPN N.V. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

 European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized officer

Ahrens, R

Tel. +49 89 2399-8136



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 402530WO	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP99/07772	International filing date (day/month/year) 07/10/1999	Priority date (day/month/year) 23/10/1998	
International Patent Classification (IPC) or national classification and IPC H04H1/02			
Applicant KONINKLIJKE KPN N.V. et al.			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.


2. This REPORT consists of a total of 4 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 20/01/2000	Date of completion of this report 20.03.2000
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Willems, B Telephone No. +49 89 2399 8954



**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP99/07772

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-6 as originally filed

Claims, No.:

1-4 as originally filed

Drawings, sheets:

1/2-2/2 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP99/07772

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims 1 - 4
	No: Claims
Inventive step (IS)	Yes: Claims 1 - 4
	No: Claims
Industrial applicability (IA)	Yes: Claims 1 - 4
	No: Claims

2. Citations and explanations

see separate sheet

Reasoned statement under Article 35(2) PCT

1. Cited Document:

D1 = DE-A-4 440419

2. Document D1 discloses a method for selecting data from an audio/video database. The stored data is categorized by adding a main category, sub-category and detail-category code (column 3, line 12). A user profile is set up either using an interactive questionnaire or by reading the category codes of programmes being received by users (column 3 and 4). Said profiles can be stored locally or centrally. To select an item stored in the database, the profile is compared with the category codes (column 5, line 28). Information packets of selected programmes are stored in a presentation memory. The data in said packets is used to produce masks for making programme sheets (column 6, line 32). The user can browse through said programme sheets to select one particular programme.

The subject-matter of claim 1 differs from the disclosure of document D1 in that the latter does not disclose transmitting replica's of the selected files and the selection file to enable the local selection means to play the files under control of the selection file.

This feature is neither disclosed nor rendered obvious by the disclosure of any of the documents cited in the International Search Report. Therefore, the subject-matter of claims 1 meets the requirements of Articles 33(2) and 33(3) PCT.

3. Claims 2 to 4 are either directly or indirectly dependent on claim 1. Therefore, claims 2 to 4 meet the requirements of Articles 33(2) and 33(3) PCT.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 402530W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 99/ 07772	International filing date (day/month/year) 07/10/1999	(Earliest) Priority Date (day/month/year) 23/10/1998
Applicant KONINKLIJKE KPN N.V. et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

2



None of the figures.

INTERNATIONAL SEARCH REPORT

National Application No

PCT/EP 99/07772

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04H1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 93 09631 A (FINISAR CORP) 13 May 1993 (1993-05-13) page 1, line 1 -page 5, line 7; claim 1; figure 1 ---	1
A	DE 42 44 198 A (NSM AG) 30 June 1994 (1994-06-30) column 1, line 1 -column 3, line 47; claim 1; figure 1 ---	1
A	DE 44 40 419 A (ISSING TILMAN ;ISSING MATTHIAS (DE); ISSING LUDWIG DR (DE)) 9 May 1996 (1996-05-09) column 1, line 1 -column 8, line 34; claim 1; figure 1 --- -/--	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

22 December 1999

Date of mailing of the international search report

12/01/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

De Haan, A.J.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 99/07772

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 193 420 A (PETYARD LIMITED) 3 February 1988 (1988-02-03) the whole document ---	1
A	US 4 789 863 A (BUSH THOMAS A) 6 December 1988 (1988-12-06) column 1, line 1 - line 64; claim 1; figure 5 -----	1

PCT

From the RECEIVING OFFICE

To:

Klein, Bart
KONINKLIJKE KPN N.V.
P.O. Box 95321
NL-2509 CH Den Haag
PAYS-BAS

NOTIFICATION OF THE INTERNATIONAL
APPLICATION NUMBER AND OF THE
INTERNATIONAL FILING DATE

(PCT Rule 20.5(c))

Date of mailing
(day/month/year)

17. 11. 99

Applicant's or agent's file reference
402530WO

IMPORTANT NOTIFICATION

International application No.
PCT/ EP 99/ 07772

International filing date (day/month/year)
07/10/1999

Priority date (day/month/year)
23/10/1998

Applicant
KONINKLIJKE KPN N.V.

Title of the invention

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.
2. The applicant is further notified that the record copy of the international application was transmitted to the International Bureau on the above date of mailing.
3. ☐ Other:

* The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).

Name and mailing address of the receiving Office



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

R.L.R. PETHER

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

PCT/EP 99 / 07772

International Application No.

07 OCT 1999

International Filing Date

(07.10.1999)

EUROPEAN PATENT OFFICE

PCT INTERNATIONAL APPLICATION

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum)

402530W0

Box No. I TITLE OF INVENTION

System for the distribution of audio and video files

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Koninklijke KPN N.V.
Stationsplein 7
9726 AE GRONINGEN
The Netherlands

☐ This person is also inventor.

Telephone No.

+31 70 3323678

Facsimile No.

+31 70 3323840

Teleprinter No.

State (that is, country) of nationality:

NL

State (that is, country) of residence:

NL

This person is applicant
for the purposes of:

☐

all designated
States

☒

all designated States except
the United States of America

☐

the United States
of America only

☐

the States indicated in
the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

PIETERSE
Rob
Verbenalaan 1
2111 ZL AERDENHOUT
The Netherlands

This person is:

☐ applicant only

☒ applicant and inventor

☐ inventor only (If this check-box
is marked, do not fill in below.)

State (that is, country) of nationality:

NL

State (that is, country) of residence:

NL

This person is applicant
for the purposes of:

☐

all designated
States

☐

all designated States except
the United States of America

☒

the United States
of America only

☐

the States indicated in
the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☒

agent

☐

common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

KLEIN, Bart
KONINKLIJKE KPN N.V.
P.O. BOX 95321
2509 CH THE HAGUE
The Netherlands

Telephone No.

Facsimile No.

+31 70 3323678

Teleprinter No.

+31 70 3323840

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

Regional Patent

- ☒ **AP** ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **EA** Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP** European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA** OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | |
|---|--|
| <input checked="" type="checkbox"/> AE United Arab Emirates | <input checked="" type="checkbox"/> LR Liberia |
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> LS Lesotho |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> LT Lithuania |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> LU Luxembourg |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> LV Latvia |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> MD Republic of Moldova |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BG Bulgaria | |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> MN Mongolia |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> GD Grenada | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> GH Ghana | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> IN India | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> IS Iceland | |
| <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | <input checked="" type="checkbox"/> ZA South Africa |
| | <input checked="" type="checkbox"/> ZW Zimbabwe |
| <input checked="" type="checkbox"/> KR Republic of Korea | Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet: |
| <input checked="" type="checkbox"/> KZ Kazakhstan | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> LC Saint Lucia | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> LK Sri Lanka | |

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM

☐ Further priority claims are indicated in the Supplemental Box.

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application:* regional Office	international application: receiving Office
item (1) (23/10/98) 23 OCT 1998	1010389	NL		
item (2)				
item (3)				

☐ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s):

* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA)
(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / EP

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

6 JULY 1999

SN 32308 NL

NL

Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets:

request

574

description (excluding sequence listing part)

6

claims

1

abstract

1

drawings

2

sequence listing part of description

Total number of sheets: 1574

This international application is accompanied by the item(s) marked below:

- ☒ fee calculation sheet
- ☒ separate signed power of attorney
- ☒ copy of general power of attorney; reference number, if any:
- ☐ statement explaining lack of signature
- ☒ priority document(s) identified in Box No. VI as item(s): will follow
- ☐ translation of international application into (language):
- ☐ separate indications concerning deposited microorganism or other biological material
- ☐ nucleotide and/or amino acid sequence listing in computer readable form
- ☒ other (specify): (search report)

Figure of the drawings which should accompany the abstract:

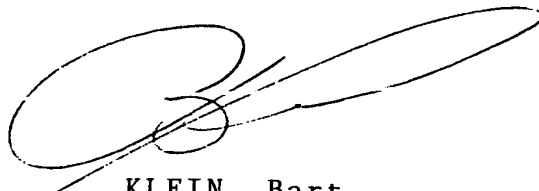
2

Language of filing of the international application:

English

Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).



KLEIN, Bart

For receiving Office use only

1. Date of actual receipt of the purported international application: 07 OCT 1999 (07. 10. 1999)	2. Drawings: <input checked="" type="checkbox"/> received: <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA /	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

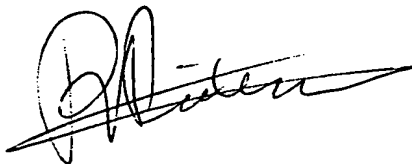
1. If, in any of the Boxes, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No. ..." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:

- (i) if more than two persons are involved as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI;
- (vii) if, in Box No. VI, the earlier application is an ARIPO application: in such case, write "Continuation of Box No. VI", specify the number of the item corresponding to that earlier application and indicate at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed.

2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

3. If the applicant claims, in respect of any designated Office, the benefits of provisions of the national law concerning non-prejudicial disclosures or exceptions to lack of novelty: in such case, write "Statement concerning non-prejudicial disclosures or exceptions to lack of novelty" and furnish that statement below.

Continuation of Box No. IX



PIETERSE
Rob

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below.

IPEA/ EP

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND	
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference	
International application No.	International filing date (day/month/year)	402530WO	
PCT/EP 99/07772	(07/10/99) 07 October 1999	(Earliest) Priority date (day/month/year) (23/10/98) 23 October 1998	
Title of invention			
System for the distribution of audio and video files.			
Box No. II APPLICANT(S)			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)		Telephone No.:	
KONINKLIJKE KPN N.V. 7 Stationsplein 9726 AE GRONINGEN The Netherlands		+31 70 332 36 78	
		Facsimile No.:	
		+31 70 332 38 40	
		Teleprinter No.:	
State (that is, country) of nationality:		State (that is, country) of residence:	
NL		NL	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)			
PIETERSE, Rob Verbenalaan 1 2111 ZL AERDENHOUT The Netherlands			
State (that is, country) of nationality:		State (that is, country) of residence:	
NL		NL	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)			
State (that is, country) of nationality:		State (that is, country) of residence:	
<input type="checkbox"/> Further applicants are indicated on a continuation sheet.			

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCEThe following person is ☒ agent ☐ common representativeand ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

KRUK, Wiggert Johan
 KONINKLIJKE KPN N.V.
 P.O. BOX 95321
 2509 CH The Hague
 The Netherlands

Telephone No.:

+31 70 332 36 78

Facsimile No.:

+31 70 332 38 40

Teleprinter No.:

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION****Statement concerning amendments:***

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filedthe description ☒ as originally filed☐ as amended under Article 34the claims ☒ as originally filed☐ as amended under Article 19 (together with any accompanying statement)☐ as amended under Article 34the drawings ☒ as originally filed☐ as amended under Article 342. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: English☒ which is the language in which the international application was filed.☐ which is the language of a translation furnished for the purposes of international search.☐ which is the language of publication of the international application.☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.**Box No. V ELECTION OF STATES**The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter II of the PCT)*

excluding the following States which the applicant wishes not to elect:

Box No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- | | | |
|--|---|--------|
| 1. translation of international application | : | sheets |
| 2. amendments under Article 34 | : | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets |
| 4. copy (or, where required, translation) of statement under Article 19 | : | sheets |
| 5. letter | : | sheets |
| 6. other (specify) | : | sheets |

For International Preliminary Examining Authority use only

received not received

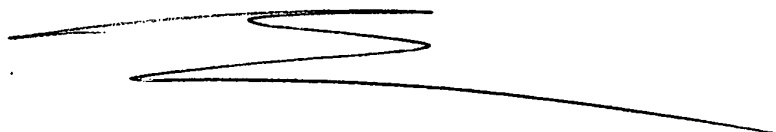
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The demand is also accompanied by the item(s) marked below:

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> fee calculation sheet | 4. <input type="checkbox"/> statement explaining lack of signature |
| 2. <input type="checkbox"/> separate signed power of attorney | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input checked="" type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input type="checkbox"/> other (specify): |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).



Wiggert Johan Kruk

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:
2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):
3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. ☐ The applicant has been informed accordingly.
4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.
5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

PCT

FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

International application No. PCT/EP 99/07772 <hr/> Applicant's or agent's file reference 402530W0	For International Preliminary Examining Authority use only <hr/> Date stamp of the IPEA
Applicant KONINKLIJKE KPN N.V.	
Calculation of prescribed fees 1. Preliminary examination fee EUR 1533 P 2. Handling fee (<i>Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.</i>) EUR 148 H 3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box EUR 1681 TOTAL 	
Mode of Payment <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> authorization to charge deposit account with the IPEA (see below) </div> <div style="width: 50%;"> <input type="checkbox"/> cash </div> <div style="width: 50%;"> <input type="checkbox"/> cheque </div> <div style="width: 50%;"> <input type="checkbox"/> revenue stamps </div> <div style="width: 50%;"> <input type="checkbox"/> postal money order </div> <div style="width: 50%;"> <input type="checkbox"/> coupons </div> <div style="width: 50%;"> <input type="checkbox"/> bank draft </div> <div style="width: 50%;"> <input type="checkbox"/> other (specify): </div> </div>	
Deposit Account Authorization (<i>this mode of payment may not be available at all IPEAs</i>) The IPEA/ EP <input checked="" type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account. <input checked="" type="checkbox"/> (<i>this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit</i>) is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.	
28090011 Deposit Account Number	18 January 2000 Date (day/month/year)
Signature Wiggert Johan Kruk	

1 **ALLGEMEINE VOLLMACHT
GENERAL AUTHORISATION
POUVOIR GENERAL**

Nur für amtlichen Gebrauch / For official use only
Cadre réservé à l'administration
Nr. der allgemeinen Vollmacht / General Authorisation No.
N° du pouvoir général

21396 (rev.)

2 Ich (Wir) / I (We) / Je (Nous)

Koninklijke KPN N.V.
Stationsplein 7
9726 AE GRONINGEN
The Netherlands

3 bevollmächtigte(n) hiermit / do hereby authorise / autorise (autorisons) par la présente

KLEIN, Bart (Professional Representative)
KRUK, Wiggert Johan (Professional Representative)

mailing address: Koninklijke KPN N.V.
Intellectual Property Group
P.O. Box 95321
2509 CH THE HAGUE
The Netherlands

4 mich (uns) in den durch das Europäische Patentübereinkommen geschaffenen Verfahren in allen meinen (unseren) Patentangelegenheiten zu vertreten, alle Handlungen für mich (uns) vorzunehmen und Zahlungen für mich (uns) in Empfang zu nehmen.
to represent me (us) in all proceedings established by the European Patent Convention and to act for me (us) in all patent transactions and to receive payments on my (our) behalf.
à me (nous) représenter pour ce qui concerne toutes mes (nos) affaires de brevet dans toute procédure instituée par la Convention sur le brevet européen et, à ce titre, à agir en mon (notre) nom et à recevoir des paiements pour mon (notre) compte.

☒ Die Vollmacht gilt auch für Verfahren nach dem Vertrag über die internationale Zusammenarbeit auf dem Gebiet des Patentwesens.
This authorisation shall also apply to the same extent to any proceedings established by the Patent Cooperation Treaty.
Ce pouvoir s'applique également à toute procédure instituée par le Traité de coopération en matière de brevets.

☐ Weitere Vertreter sind auf einem gesonderten Blatt angegeben. / Additional representatives indicated on supplementary sheet.
Les autres mandataires sont mentionnés sur une feuille supplémentaire.

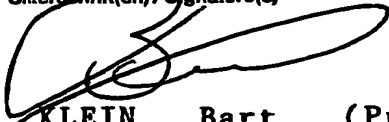
5 ☒ Untervollmacht kann erteilt werden. / Sub-authorisation may be given. / Le pouvoir pourra être délégué.

6 ☒ Bitte die gelbe Kopie, ergänzt um die Nr. der allgemeinen Vollmacht, an den Vollmachtgeber zurücksenden.
Please return the yellow copy, supplemented by the General Authorisation No., to the authorisor.
Prière de renvoyer la copie jaune au mandant, munie du n° du pouvoir général.

Ort/Place/Lieu The Hague

Datum/Date April 27, 1999

Unterschrift(en)/Signature(s)



KLEIN, Bart (Professional Representative)

7 Das Formblatt muß vom (von den) Vollmachtgeber(n) (bei juristischen Personen vom Unterschriftsberechtigten) eigenhändig unterzeichnet sein. Nach der Unterschrift bitte den (die) Namen des (der) Unterzeichneten mit Schreibmaschine wiederholen (bei juristischen Personen die Stellung des Unterschriftsberechtigten innerhalb der Gesellschaft angeben).

The form must bear the personal signature(s) of the authorisor(s) (in the case of legal persons, that of the officer empowered to sign). After the signature, please type the name(s) of the signatory(ies) adding, in the case of legal persons, his (their) position within the company.

Le formulaire doit être signé de la propre main du (des) mandant(s) (dans le cas de personnes morales, de la personne ayant qualité pour signer). Veuillez ajouter à la machine, après la signature, le (les) nom(s) du (des) signataire(s) en mentionnant, dans le cas de personnes morales, ses (leurs) fonctions au sein de la société.

KINGDOM OF THE (crest) NETHERLANDS

PATENT OFFICE

This certifies that in the Netherlands, on 23 October 1998, a patent application was filed
under number 1010389, in the name of:

Koninklijke KPN N.V.

of Groningen

for: "System for the distribution of audio and video files."

Rijswijk, 6 October 1999.

On behalf of the Chairman of the Patent Office,

(signature)

(A.W. van der Kruk.)

2/10/01

09/807869
532 Rec'd PCNTTC 19 APR 2001

System for the distribution of audio and video files

BACKGROUND OF THE INVENTION

The invention relates to a system for the distribution of
5 audio and video files, comprising a central database with
audio or video files, local processing means for processing
and reproducing such files and a transmission network for
the transmission of such files from the central database to
the local processing means.
10 A comparable system is widely known, particularly in the
domain of the "Internet", among others from WO9617451, in
which a system is described for distributing audio "clips"
via a multimedia network. The local processing means are
formed by a PC, which is controlled by processing and
15 reproducing software for audio.

SUMMARY OF THE INVENTION

The present invention proposes a number of measures for
adapting a system for distributing audio (or video) via a
20 transmission network for application as a means of
distribution for e.g. varied background music in shops,
restaurants, waiting lounges etc. So far for this purpose a
service is used in which, when one has a subscription to
that service, cassette tapes or compact discs (CDs) are
25 distributed from a central point via physical mail and the
like to subscribing shops etc. An important point is that
the music that is played in the shops etc. must be
regularly changed and "refreshed". In some cases a fairly
balanced collection of music is desired adapted to the time
30 of the day, time of the year, etc. Retail chains usually
also want that the music played is the same in all the
various locations or branches. "Free" shops like to be free
in their choice of background music.
The invention thus comprises a system for the distribution
35 of audio and video files, in particular - but not
exclusively - for supplying music (or audio) in shops etc.,

comprising, in a central server with a central database with audio and video files, and with local clients of the service, viz. the shops etc., local processing means for processing and playing of the files and a transmission
5 network for the transmission of the files from the central database to the local processing means. The system according to the invention comprises a processor for selecting a collection of files from the database by means of a selection algorithm and storing that selection in a
10 selection file, as well as for transferring via the transmission network to the local processing means of a subscriber of both the selection file and the selected files themselves, in which the local selection means can play the selected files under control of the selection
15 file.

If the system according to the invention is applied for e.g. retail chains in which at every moment of the day the same music should be played, it is sufficient that the subscriber - the branch manager - can switch on or off the
20 local processing system without further influence of the repertoire played by the processing system.

The repertoire is preferably refreshed periodically. Files from the local downloaded collection are then replaced by other files from a central database. Using current
25 transmission means downloading of 1 hour of music takes around half an hour. By refreshing the local files regularly, the reproduced music keeps its attraction for visitors (for whom it is meant of course). In such a periodical refreshing mechanism the processor replaces
30 under control of the refreshing algorithm periodically a part of the collection of local files by new files, which have to be selected again (under control of the selection algorithm) from the database and have to be transferred via the transmission means.

35 The system according to the invention can be used for the

distribution of audio or video to shops etc. where - as in the preceding concept - they are locally not free in the choice of the played music or where they - contrary to the preceding - are locally free to make a choice from various downloaded collections. In this last option, the processor selects on the basis of one or more selection algorithms, different collections of files and stores these selections in different selection files, which are transferred to the local processing means via the transmission network. The local processing means comprise in this preferred embodiment of the invention a local selection device for selecting according to the desire of the subscriber of one of those different selection files. In this case the shop owner etc. has various collections of music available from which can be chosen.

In the last option there are locally different collections of files with in total (many) more files than in the option in which locally no choice of collections could be made. The "refreshing" of the collections is here a larger problem, because the time and resources required for this are limited. A considerable gain of time and resources can be obtained by having the local selection device store the selections made by the subscriber in a log file and have the central processor read out that log file via the transmission network and have under its control a part of the actually used collections or individual files replaced by new, again from the database selected files. The invention will below be illustrated by means of some figures.

30

DESCRIPTION OF FIGURES

Figure 1 shows a first embodiment of the invention. A central database 1 works together or is incorporated in a computer 4. In the database 1, a large collection of (e.g. MPEG or JPEG coded) audio (or video) files is stored. There

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are (sub)collections of different music styles, from medieval chamber music to contemporary pop music and besides music from different parts of the world. The service which is offered by means of the system described here exists in that subscribers can make a selection from the whole range of music (the same applies of course to video) by means of a central selection algorithm, which selection, after being downloaded via the transmission network 3, can be played locally on the subscriber location. Furthermore, the invention comprises that the selected files (music pieces) are regularly replaced by other pieces, while taking into account the selection rules given by the selection algorithm. By the latter the selected musical genres remain the same, but the music pieces are replaced within these genres. On refreshing of music pieces it is made sure - by a refreshing algorithm - that there is enough coherence (genre) and variation between a replacing music piece and the musical context in which it is placed. This applies also to the selection algorithm; selection algorithm and refreshing algorithm are thus largely congruent.

The software loaded in the central computer 4 comprises a selection algorithm with which, using selection data as genre, composer, instrumentation etc, a collection of files (music files) is selected from the database. The file data (such as record numbers) of those selected files are stored in a selection file ("play list") 5. Next, the selected files and a replica of the selection file 5' are transferred via the transmission network 3 to the local computer 2 of the subscriber and stored (1', 5'). Under control of the selection file 5', the selected files 1' can then be played via an audio installation 6. In this concept the local user can only choose between playing and non-playing of the transferred music files 1', under control of file 5'. This concept is especially useful for retail

chains etc. with a uniform corporate identity, inclusive the (background) music.

The processor, that is the computer 4 with the loaded software, replaces under control of a refreshing algorithm
5 periodically a part of the collection of selected files and that have been transferred to the local processing means by files that are again selected from the database. As said, the correct genre is taken into account (the new files must originate from the same genre subset as the old file) as
10 well as the variation in among others composers and performing musicians.

If it is desired - contrary to the retail chains with completely uniform presentation - that the local subscribers make a choice themselves from a series of music
15 collections (5'), which are all compiled according to a certain logic (by means of a selection algorithm), the architecture of figure 1 is replaced by that of figure 2. In the architecture of figure 2, the processor 4 selects by means of one or more different selection algorithms
20 different collections of files and stores these selections in various selection files ("play lists"), collectively referred to with 5". Those selection files 5" are transferred via the transmission network 3 to the local processor 2, together with the selected files. In this
25 architecture there are consequently usually more than in the preceding embodiment. The local processing means 2 comprise a local selection device for selecting a selection file according to the desire of the subscriber from the different downloaded selection files (here refereed to with
30 5'''). The said local selection device preferably belongs to the software which is loaded on the local computer 2. By means of screen and mouse/keyboard a choice can be made ad libitum from one of the downloaded "play lists" 5.

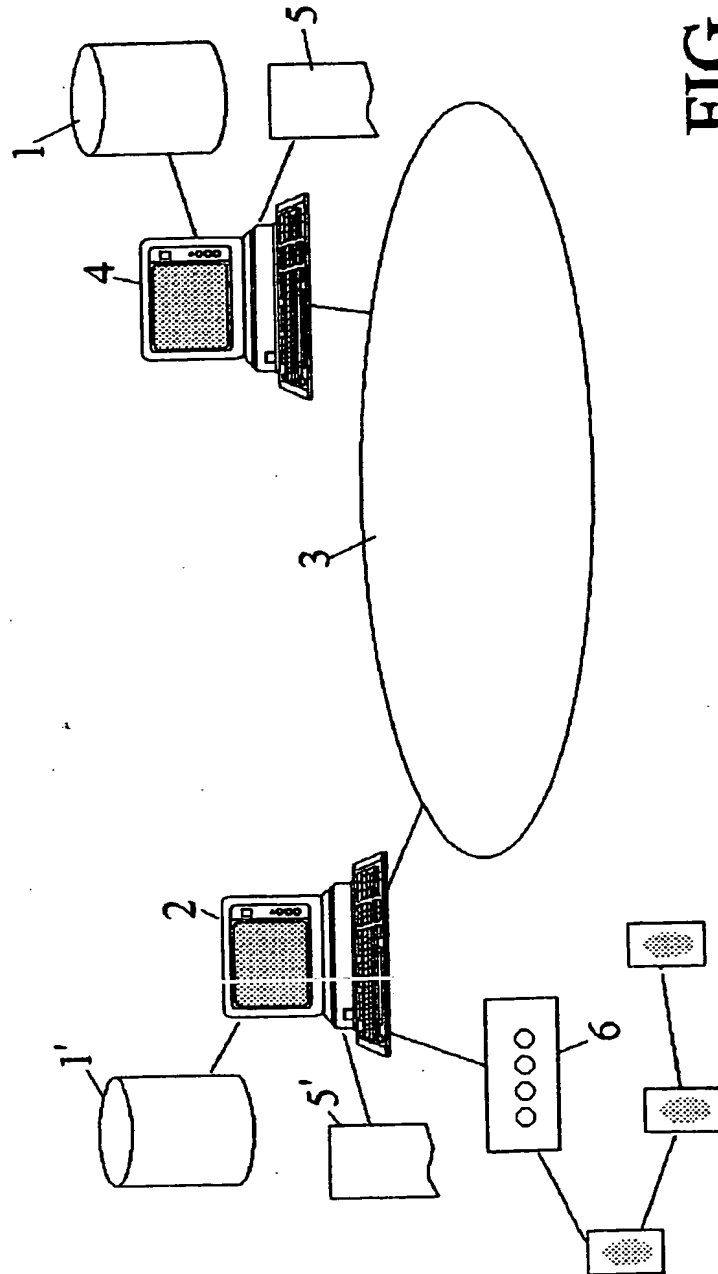
Because in this option there are many more files
35 downloaded, refreshing of it requires more capacity.

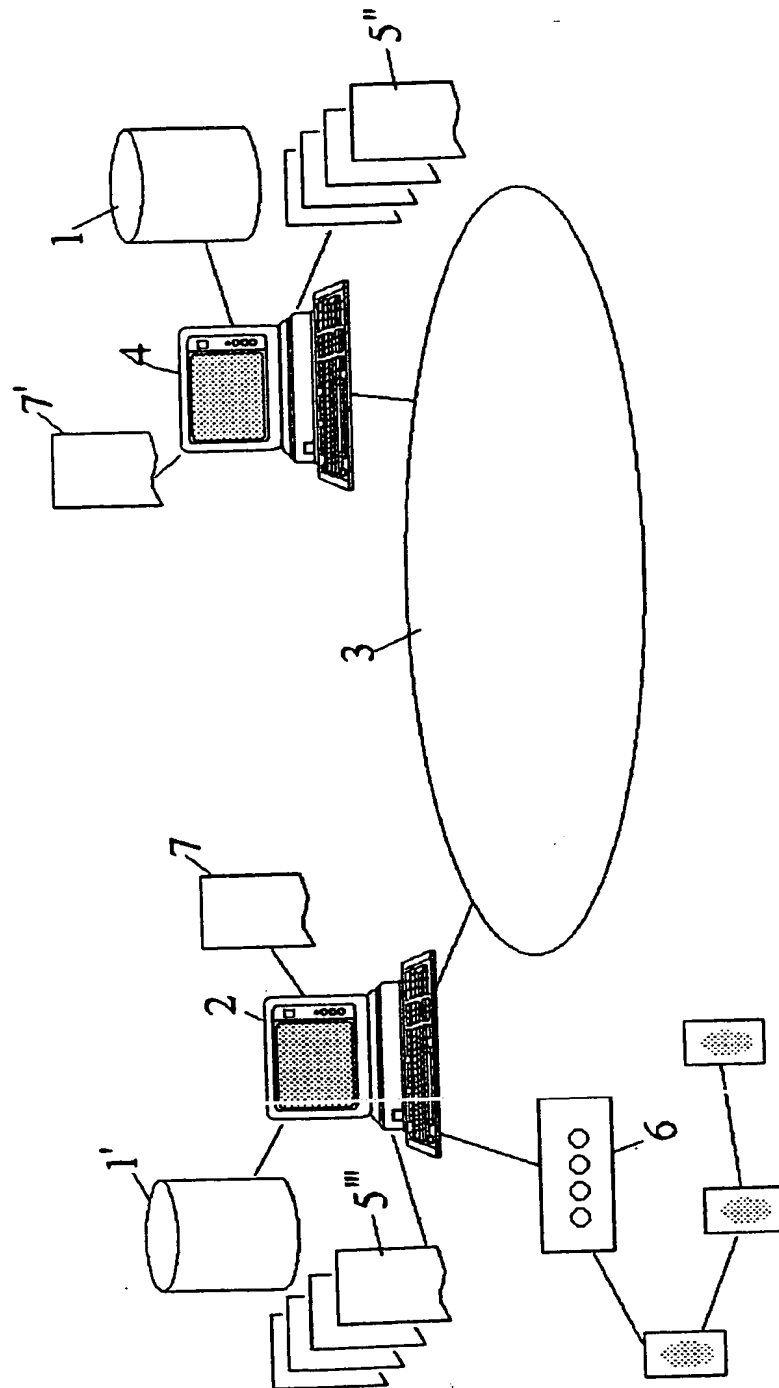
Especially when the number of files is substantial, regularly refreshing can be a problem. However, the following measure has been taken.

The local selection device, incorporated in computer 2, stores the consecutive choices made by the subscriber in a "log file" 7. The central processor 4 reads periodically those selections stored in the log file via the transmission network. Under control of the uploaded log file 7' and a refreshing algorithm, the central processor periodically replaces a part, some files, of the collection files in the local processing means 2 by selecting files again from the central database 1. Also the selection file concerned from the set 5" is edited. The new files and the edited selection file are sent to the local computer 2. The computer 2 replaces the old files in 1' and the old "play list" in 5''' by new ones. By using a log file per subscriber the number of files to be refreshed is reduced considerably, namely to the local files which have been actually selected by the subscriber.

CLAIMS

1. System for the distribution of audio and video files, comprising a central database (1) with audio or video files, local processing means for processing and playing of
5 such files and a transmission network for the transmission of such files from the central database to the local processing means, **characterised by** a processor (4) for selecting a collection of files from the database by means of a selection algorithm and storing that selection in a
10 selection file (5), as well as for transferring, via the transmission network to the local processing means of a subscriber, replica's of both the selection file (5') and the selected files (1') themselves, the local selection means being able to play the selected files via playing
15 means (6), under control of the selection file.
2. System according to claim 1, **characterised in that** the processor periodically replaces, under control of a refreshing algorithm, part of the collection of selected files by files which are selected once again from the
20 database.
3. System according to claim 1, **characterised in that** the processor selects, on the basis of one or more selection algorithms, different collections of files and stores these selections in different selection files, which are
25 transferred to the local processing means via the transmission network, the local processing means comprising a local selection device for selecting, according to the desire of the subscriber, one of those different selection files.
- 30 4. System according to claim 3, **characterised in that** the local selection device stores consecutive choices made by the subscriber, in a log file, the processor reading out the selections stored in the local selection device and periodically replacing part of the collection of selected
35 files by files selected once again from the database.

FIG. 1

FIG. 2

ABSTRACT

System for the distribution of audio and video files. From a central database (1) audio/video files are transferred to local processing means (2). A processor (4) selects a
5 collection of files (1') and stores these in a selection file (5'). The selection file and the selected files are transferred to the local processing means, which play the selected files. The processor periodically replaces part of the collection of local files by new files selected from
10 the database. The processor can also select different collections of files and transfer these to the local processing means. The local processing means then comprise a local selection device for selecting selection files according to the desire of the subscriber, by means of
15 which the files are "played" locally. For refreshing of the local files the local selection device stores the local selections and the central processor reads out those selections and replaces a part of the local collection.

20 (Fig. 2)

FIG. 2

